K 160 M sileo

Centrifugal circular duct fan, <125W

Item number: 25364

Variant: 230V 1~ 50Hz

- Speed-controllable
- Quiet-running
- Increased efficiency
- Integral thermal contacts
- Can be installed in any position
- Can be installed outdoors
- Maintenance-free and reliable

The K Sileo series is designed for installation in ducts. All K-fans have a minimum 25 mm long spigot connections.

The fans have backward-curved blades and external rotor motors. To simplify the installation the K Sileo fan has a fixing bracket together with screws for mounting the bracket included as standard. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans can be speed-controlled via a stepless thyristor or a 5-step transformer.

To protect the motor from overheating the fan has integral thermal contacts with manual reset.

The casing is manufactured from galvanised sheet steel and folded which gives the fan a close to air tight casing. Duct connected outdoor and wet room applications of the fan are possible due to the air tight casing

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	53	W
Input current	0.231	A
Impeller speed	2,388	rpm
Air flow	max 450	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 3m (20m² Sabin)	38	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

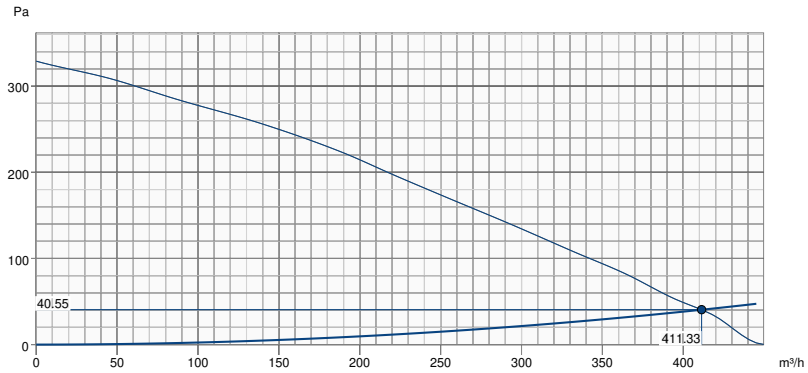
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	B	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	160	mm
Duct dimension; Circular, outlet	160	mm
Weight	3.3	kg

others		
Duct connection type	Circular	
Motor type	AC	

Performance

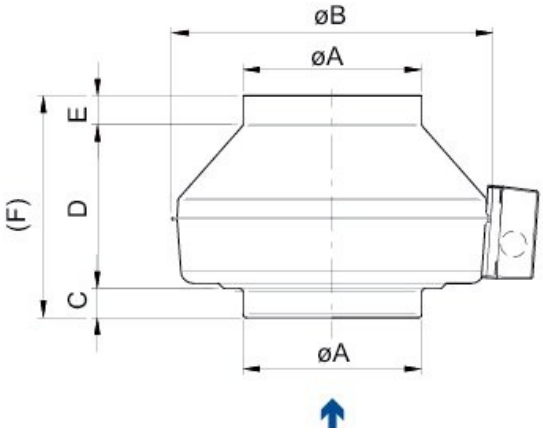
Performance curve

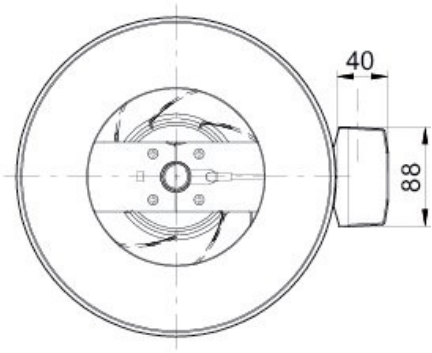


Hydraulic data	
Required air flow	484 m³/h
Required static pressure	56 Pa
Working air flow	411 m³/h
Working static pressure	41 Pa
Air density	1.204 kg/m³
Power	50.7 W
Fan control - RPM	2453 rpm
Current	0.20 A
SFP	0.444 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	39	57	59	59	60	59	55	45	66
Outlet	dB(A)	49	56	60	56	58	58	52	42	65
Surrounding	dB(A)	14	16	32	40	39	41	38	29	46
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	39
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	25

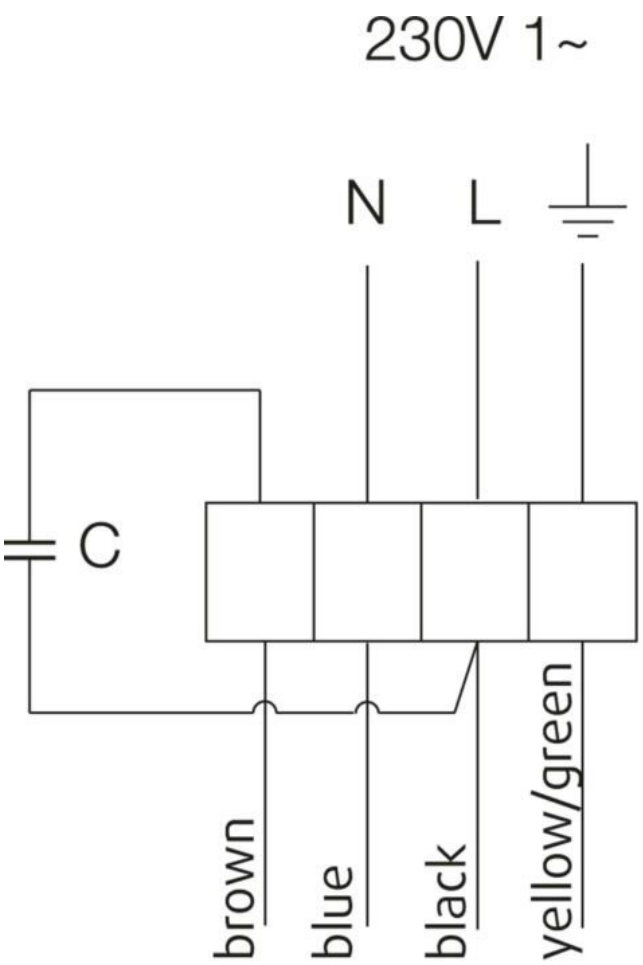
Dimension





øA	øB	C	D	E	F
159	286	25	147	26	198

Wiring



Ecodesign

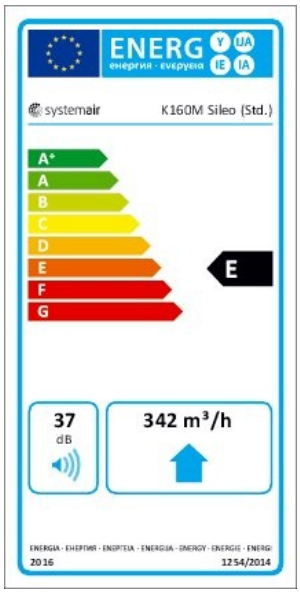
Product		
Trade name	Systemair	
Product name	K 160 M Sileo	

Basic unit		
ErP compliance	2016	
SEC Average	-13.4	kWh/(m².a)
SEC Cold	-29.8	kWh/(m².a)
SEC Warm	-4	kWh/(m².a)
SEC Class	E	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	342	m³/h
P max	52	W
Sound power level LWA	37	dB(A)
qv ref	0.067	m³/s
Ps ref	50	Pa
SPI	0.12	W/(m³/h)
CTRL	1	
MISC	1.1	
x-value	1.5	
External Leakage	0	%
AEC average	150.3	kWh
AHS Cold	150.3	kWh
AEC warm	150.3	kWh
AHS Average	1,715.2	kWh/a
AHS Cold	3,355.3	kWh/a
AHS Warm	775.6	kWh/a

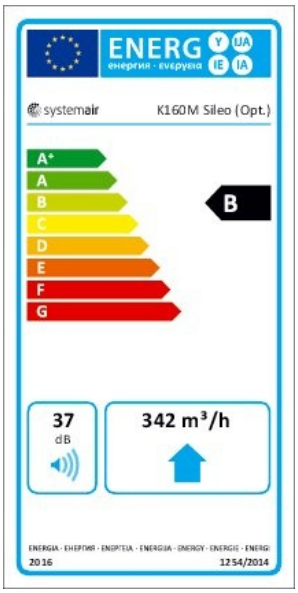
Units with local demand control		
ErP compliance	2018	
SEC Average	-26.3	kWh/(m².a)
SEC Cold	-53.4	kWh/(m².a)
SEC Warm	-10.8	kWh/(m².a)
SEC Class	B	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	342	m³/h
P max	52	W
Sound power level LWA	37	dB(A)
qv ref	0.0665	m³/s
Ps ref	50	Pa
SPI	0.12	W/(m³/h)
CTRL	0.65	
MISC	1.1	
x-value	1.5	
External Leakage	0	%
AEC average	78.8	kWh
AEC cold	78.8	kWh
AEC warm	78.8	kWh
AHS Average	2,830	kWh/a
AHS Cold	5,536.2	kWh/a
AHS Warm	1,279.7	kWh/a

Energy class label

Energy class, Basic unit



Energy class, Local demand



Accessories

- Frequency converter FRQ5SE-6A (37421)
- RE 1,5 Speed control (5000)
- REPT 6 Digital regulator (5698)
- REU 1.5 Speed control (5004)
- SG 160 Protection guard (5608)
- CO2RT-R-D Transmitter (6993)
- Frequency converter FRQSE-6A (37419)
- Presence detector/IR24-P (6995)
- Safety switch 2-pole grey (210679)
- CB 160-1,2 230V/1 Duct heater (5291)
- CB 160-2,7 230V/1 Duct heater (5382)
- CBM 160-2,1 230V/1 Duct heater (5482)
- CWK 160-3-2,5 Duct cooler,circ (30022)
- FGR 160 Filter cassette (1809)
- LDC 160-300 Silencer (53108)
- LDC 160-900 Silencer (5193)
- THB 160 Hood w.cover pl. black (1764)
- VBC 160-2 Water heating batt (5458)
- VBF 160 Water heating battery (1731)
- IGK-160 Wall Grid (1632)
- REE 1 Speed control (5314)
- RETP 6 Temp/Pressure regulator (32293)
- REV-3POL/03-7,5kW R/Y (33978)
- VKK-160 Back draft damper (1625)
- DTV500A (96807)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)
- T 120 Timer (5165)
- CB 160-2,1 230V/1 Duct heater (5292)
- CB 160-5,0 400V/2 Duct heater (5383)
- CBMF 160-2,1 230V/1 Duct heate (12244)
- FFR 160 Filter cassette (1770)
- FK 160 Fast clamp (1610)
- LDC 160-600 Silencer (5192)
- RSK-160 Back draft damper (5601)
- THS 160 Hood w.cover pl. black (1839)
- VBC 160-3 Water heating batt (9840)
- Room hygrostat HR-S (286251)

Documents

- INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_K__KV__PRIO__EN_006.PDF
- K fan mounting.wmv